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### ■Main Features

- ⌘ DC to 20MHz bandwidth, 2 channels, Dual trace
- ⌘ 6" rectangular CRT with internal graticule
- ⌘ Sensitivity 1mV/div
- ⌘ ALT triggering function in VERT mode
- ⌘ CH2 polarity inversion switch
- ⌘ High sensitivity X-Y mode
- ⌘ Sweep magnification (X 10)
- ⌘ TV sync. Separator circuit for stable TV signal observation
- ⌘ 400V maximum input voltage

### ■CRT

- Configuration and useful screen: 6 inch rectangular screen with internal graticule, 8x10div. (1div = 1cm) marking for measurement of rise time, 2mm subdivisions along the central axis.
- Acceleration potential: +1.9kv approx.(ref. Cathode)
- Phosphor : P31
- Focusing : provided
- Trace rotation : provided
- Intensity control : provided

### ■Z-AXIS INPUT (INTENSITY MODULATION)

- Input signal: positive going signal decreases +5Vp-p or more signal cases intensity noticeable modulation at normal intensity setting
- Bandwidth: DC to 2MHz(-3dB)
- Coupling: DC
- Input impedance: 25k $\Omega$  - 30k $\Omega$  typical
- Maximum input voltage: 30V(DC + peak AC)

## ■ VERTICAL DEFLECTION

- DC coupled (-3dB): DC to 20MHz normal / DC to 10MHz magnified (CH 1 only)
- AC coupled (-3dB) : 10Hz to 20MHz normal / 10Hz to 10MHz magnified (CH 1 only)
- Modes : CH1, CH2, ADD, DUAL(CHOP : Time/div. switch from 0.2s to 1ms,
- ALT : Time/div. switch from 0.5ms to 0.2μs)
- Deflection factor (normal): 5mV/div. to 20V/div. in 12 calibrated steps of 1-2-5sequence.
- Continuously variable between steps at least 1:2.5 X 5.
- Deflection factor (5MAG): 1mV/div. to 4V/div. in 12 calibrated steps (CH1 only).
- Accuracy: normal ±3%, magnified: ±5%(CH 1 only)
- Input impedance: approx. 1MΩ in parallel with 30pF
- Maximum input voltage: direct 400V (DC + peak AC)
- Input coupling: AC, GND, DC
- Rise time: 17.5ns or less (35ns or less in 5MAG)
- CH1 output: 25mV/div. into 50Ω / DC to 10MHz(-3dB)
- Polarity inversion: CH2 only

## ■ HORIZONTAL DEFLECTION

- Sweep mode: NORM, X-Y, X 10, Variable
- Time base A: 0.2μs/div. to 0.2s/div. in 19 calibrated steps of 1-2-5 sequence uncalibrated continuous control between steps at least 1:2.5
- Sweep magnification: 10 times (maximum sweep rate: 20ns/div.) 50ns/div. or 20ns/div. ±10%
- Accuracy: ±3%(0□ to 35□), ±5%(0□~10□, 35□~40□) / additional error for magnifier : ±2%

## ■ TRIGGER SYSTEM

- Modes: AUTO, NORM, TV-V, TV-H
- Source: VERT (DUAL/ALT), CH1, LINE, EXT
- Coupling: AC
- Slope: + or -
- Sensitivity and frequency in AUTO, NORM 20HZ - 2MHz : 0.5div. or 2div.(VERT) in INT / 0.2Vp-p in EXT
- Sensitivity and frequency in AUTO, NORM 2Hz - 20MHz : 1.5div. or 3div.(VERT) in INT / 0.6Vp-p in EXT
- TV-V, TV-H : at least 1div. or 1.0Vp-p
- External trigger input impedance : 1MΩ ± 10%
- Maximum input voltage : 400V (DC + AC peak)

## ■ X-Y OPERATION

- Sensitivity: same as vertical deflection for both X-axis (CH1) and Y-axis (CH2) except accuracy ± 5% in X-axis
- X-axis bandwidth: DC to 500kHz (-3dB)
- X-Y phase difference: 3° or less as DC to 50kHz

## ■ CALIBRATOR

- Probe adjustment: approx. 1kHz frequency (20%), 0.5V(10%) square wave with 40-50% duty ratio

#### ■POWER &SUPPLY

- Line voltage range: 115V(98-125V) with 125V 1A fuse or 230V(198-250V) with 250V 0.5A fuse
- Line frequency: 50/60Hz
- Power consumption: approx. 45W

#### ■PHYSICAL CHARACTERISTICS

- Weight: 7.8kg
- Dimension: 316mm(W) X 143mm(H) X 406mm(L)

#### ■OTHERS

- Accessories including: Operation manual, Spare fuse, Power cord
- Optional accessories (sold separately) : Probe